

**SIEMENS Corporation**

Intellectual Property Dept.  
170 Wood Avenue South  
Iselin, NJ 08830

**PATENT APPLICATION**ATTORNEY DOCKET NO.: 2003P12642US**CERTIFICATE OF EXPRESS MAIL, MAILING OR FACSIMILE TRANSMISSION**

The undersigned hereby certifies that this correspondence is

☐ being deposited under Express Mail Label No. \_\_\_\_\_ on the date given below; or☒ being deposited under 37 CFR 1.8 with the U.S. Postal Service with sufficient postage as first class mail in an envelope addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date given below, or☐ being facsimile transmitted to the U.S. Patent and Trademark Office at the fax number and date given below:Facsimile Number: 703No. of Pages: IDS + Form 1449 + References ( total pages )Date of Deposit or Transmission: 03/10/05By: [Signature]Typed Name: Raquel C. West**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**Inventor(s): Gupta, et al.Appln. No.: 10/676,969Filing Date: 09/30/2003Title: **Interfacial Trap Layer to Improve Carrier Injection**Examiner: Ngo, Ngan V.Art Unit: 2814

COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, VA 22313-1450

**INFORMATION DISCLOSURE STATEMENT**

Sir:

This Information Disclosure Statement is submitted:

- ☒ under 37 CFR 1.97 (b),  
(Within three months of either ☒ the filing date of a national application other than a continued prosecution application under 37 CFR 1.53(d) or ☐ the date of national stage entry of international application; or ☐ before mailing date of first office action on the merits; or ☐ before mailing date of a first office action after filing of a request for continued examination under 37 CFR 1.114).
- ☐ under 37 CFR 1.97 (c) together with either a:  
☐ Certification under 37 CFR 1.97 (e), **OR**  
☐ the \$ 180.00 fee under 37 CFR 1.17 (p) authorized to be charged to Deposit Account **19-2179**. At any time during the pendency of this application, please charge any fees required or credit any overpayment to Deposit Account **19-2179** pursuant to 37 CFR 1.25.  
(After the 37 CFR 1.97 (b) time period, but before mailing date of any of ☐ a final action under 37 CFR 1.113, or ☐ a notice of allowance under 37 CFR 1.311, or ☐ an action that otherwise closes prosecution).
- ☐ under 37 CFR 1.97 (d) together with a:  
☐ Certification under 37 CFR 1.97 (e), **AND**  
☐ the \$ 180.00 fee under 37 CFR 1.17(p) authorized to be charged to Deposit Account **19-2179**. At any time during the pendency of this application, please charge any fees required or credit any overpayment to Deposit Account **19-2179** pursuant to 37 CFR 1.25.  
(After the 37 CFR 1.97 (c) time period, but ☐ on or ☐ before payment of the issue fee).
- ☐ under 37 CFR 1.97 (i)  
(Filed after time period of 37 CFR 1.97 (d) or not in compliance with 37 CFR 1.98 - No fee or certification required; references to be placed in file but not considered).

**37 CFR 1.97(e) Certifications:**

☐ The undersigned hereby certifies under **37 CFR 1.97(e)(1)** that each item of information contained in the information disclosure statement was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement; **OR**

☐ The undersigned certifies under **37 CFR 1.97(e)(2)** that no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement.

☐ A concise explanation of the relevance of foreign language patents, foreign language publications and other foreign language information listed on PTO Form 1449, as presently understood by the individual(s) designated in 37 CFR 1.56 (c) most knowledgeable about the content that is given on ☐ the attached separate sheet or ☐ incorporated in the applicant's specification or ☐ by the enclosed English-language translation or portion thereof within the possession, custody, or control of, or is readily available to any individual designated in 37 CFR 1.56 (c).

Applicant(s) submit herewith Form PTO 1449 - Information Disclosure Citation which applicant(s) believe(s) may be material to the examination of this application and for which there may be a duty to disclose in accordance with 37 CFR 1.56,

☐ together with hard copies of all references as this application was filed before June 30, 2003; or  
☒ with hard copies of only non-U.S. patents or non-U.S. published patent applications or U.S. pending unpublished patent applications (or portion thereof) or publications or other information of which applicant(s) are aware and which should be made of record in the above-identified application; or  
☐ without hard copies of publications or other information which have been submitted previously in the parent application (application no. \_\_\_\_\_) to which the above-identified application claims priority under 35 USC 120 and which should be made of record in the above-identified application.

☒ Applicant does not believe any fee is due. However, at any time during the pendency of this application, please charge any fees required or credit any overpayment to Deposit Account **19-2179** pursuant to 37 CFR 1.25. A duplicate copy of this sheet is enclosed.

The filing of this information disclosure statement shall not be construed as a representation that a search has been made or that no other material information exists. Further, the filing of this information disclosure statement shall not be construed as an admission against interest in any manner or as an admission that the information cited is or is considered to be material to patentability.

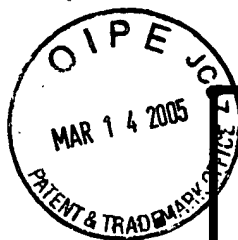
PLEASE MAIL CORRESPONDENCE TO:

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Respectfully submitted,

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Substitute for Form 1449A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet

1

of

1

**Complete if Known**

Application Number	10/676,969
Filing Date	09/30/2003
First Named Inventor	Gupta, et al.
Group Art Unit	2814
Examiner Name	Ngo, Ngan V.
Attorney Docket Number	2003P12642US

**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
		6,274,979		Celii et al.		
		6,580,213		Yamazaki		
		6,586,764		Buechel et al.		

**OTHER NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	A	S.M. Sze, "Physics of Semiconductor Devices", 2 <sup>nd</sup> Edition, 1981, Pgs. 270-273 and 516-531	
	B	"Voltage Reduction in Organic Light-Emitting Diodes", L.S. Hung, M.G. Mason, Applied Physics Letters, Volume 78, Number 23, June 2, 2001, Pgs. 3732-3734	
	C	"Enhanced Hole Injection in a Bilayer Vacuum-Deposited Organic Light-Emitting Device Using a P-Type Doped Silicon Anode", X. Zhou, J. He, L. S. Liao, M. Lu, Z. H. Xiong, X.M. Ding, X. Y. Hou, F.G. Tao, C.E. Zhou and S.T. Lee, Applied Physics Letters, Volume 74, Number 4, January 25, 1999, Pgs. 609-611	

Examiner Signature		Date Considered	
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Unique citation designation number. <sup>2</sup>See attached Kinds of U.S. Patent Documents. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.